

Table of Contents

<u>Section</u>		<u>Page</u>
ACRONYMS AND ABBREVIATIONS.....		viii
GLOSSARY		GL-1
EXECUTIVE SUMMARY		ES-1
CHAPTER 1.0 PURPOSE AND NEED FOR ACTION.....		1-1
1.1 Introduction.....		1-1
1.2 Background.....		1-1
1.3 Purpose and Need		1-6
1.4 Public Involvement		1-6
1.4.1 Scoping Process		1-6
1.4.2 Public Review and Comment on the Preapproval Draft EA.....		1-7
1.5 Organization of This EA.....		1-7
CHAPTER 2.0 DESCRIPTION OF THE PROPOSED ACTION AND ALTERNATIVES.....		2-1
2.1 Proposed Action - Release of Biological Simulants and Low Concentrations of Chemicals at Various NTS Locations.....		2-1
2.1.1 Support Activities		2-2
2.1.2 Release Scenarios.....		2-4
2.1.3 Test Series.....		2-4
2.1.4 Test Process Planning and Management.....		2-5
2.1.5 Release Criteria.....		2-6
2.1.5.1 Biological Release Criteria		2-6
2.1.5.2 Chemical Release Criteria.....		2-9
2.1.6 Emergency Management		2-11
2.2 Alternative 2 - Release Of Biological Simulants at Various NTS Locations		2-12
2.3 Alternative 3 - Release of Chemicals in Low Concentrations at Various NTS Locations		2-12
2.4 No Action Alternative.....		2-12
CHAPTER 3.0 AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES ...	3-1	
3.1 Methodology		3-1
3.2 Alternative 1 – Biological Simulant and Chemical and Releases (Proposed Action)	3-1	
3.2.1 Land Use, Visual Resources, and Noise	3-1	
3.2.1.1 Affected Environment.....		3-1
3.2.1.2 Environmental Consequences to Land Use		3-2
3.2.1.3 Environmental Consequences to Visual Resources		3-2
3.2.1.4 Environmental Consequences from Noise.....		3-2
3.2.2 Socioeconomics	3-2	
3.2.2.1 Affected Environment.....		3-2
3.2.2.2 Environmental Consequences		3-2
3.2.3 Cultural Resources	3-2	
3.2.3.1 Affected Environment.....		3-2
3.2.3.2 Environmental Consequences		3-3
3.2.4 Water Resources	3-3	
3.2.4.1 Affected Environment.....		3-3
3.2.4.2 Environmental Consequences		3-4
3.2.5 Geology and Soils	3-4	
3.2.5.1 Affected Environment.....		3-4
3.2.5.2 Environmental Consequences		3-5

Table of Contents (Continued)

<u>Section</u>		<u>Page</u>
3.2.6	Air Resources.....	3-5
3.2.6.1	Affected Environment.....	3-5
3.2.6.2	Environmental Consequences	3-6
3.2.7	BIOLOGICAL RESOURCES	3-7
3.2.7.1	Environmental Consequences	3-8
3.2.8	Traffic and Transportation	3-10
3.2.8.1	Affected Environment.....	3-10
3.2.8.2	Environmental Consequences	3-11
3.2.9	Human Health and Safety	3-11
3.2.9.1	Affected Environment.....	3-11
3.2.9.2	Environmental Consequences	3-12
3.2.10	Environmental Justice.....	3-13
3.2.10.1	Affected Environment.....	3-13
3.2.10.2	Environmental Consequences	3-13
3.2.11	Site Infrastructure.....	3-14
3.2.11.1	Affected Environment.....	3-14
3.2.11.2	Environmental Consequences	3-14
3.2.12	Waste Management.....	3-14
3.2.12.1	Affected Environment.....	3-14
3.2.12.2	Environmental Consequences	3-15
3.3	Alternative 2 - Release of Biological Simulants at Various NTS Locations	3-16
3.4	Alternative 3 - Release of Chemicals in Low Concentrations at Various NTS Locations	3-16
3.5	Alternative 4 - No Action Alternative.....	3-16
3.6	Cumulative Effects.....	3-16
CHAPTER 4.0	MITIGATION MEASURES MONITORING REQUIREMENTS	4-1
CHAPTER 5.0	STATUTES, REGULATIONS, CONSULTATIONS, AND OTHER REQUIREMENTS.....	5-1
5.1	Consultations and Coordination.....	5-1
5.1.1	Consultation and Coordination During the NEPA Process.....	5-1
5.1.2	Operational Consultation and Coordination	5-2
5.2	Pertinent Federal and State Statutes, Regulations and Restrictions	5-3
5.2.1	Requirements Pertinent to the Action Alternatives.....	5-3
5.2.2.1	General Requirements.....	5-3
5.2.2.2	Requirements Applicable to Procurement, Transport, Storage, and Use	5-3
5.2.2.3	Requirements Applicable to Environmental Release.....	5-3
5.2.2.4	Requirements Applicable to Disposal.....	5-4
5.2.2	Requirements Not Applicable to the Action Alternatives.....	5-4
5.2.3	Regulatory Permits.....	5-4
CHAPTER 6.0	REFERENCES	6-1
APPENDIX A	CONSULTATION LETTERS.....	A-1
APPENDIX B	FEDERAL AND STATE STATUTES, REGULATIONS AND RESTRICTIONS	B-1
APPENDIX C	PUBLIC COMMENTS AND RESPONSES	C-1

List of Tables

<u>Table</u>		<u>Page</u>
2-1	Biological Simulants	2-8
4-1	Environmental Protection Elements Incorporated into the Action Alternatives.	4-2

List of Figures

<u>Figure</u>		<u>Page</u>
1-1	NTS Site Location.....	1-2
1-2	NTS Areas and Some Key Facilities	1-5
2-1	HSC Authorized Release Boundaries for Modified Wind Direction Parameter, in Relation to Existing HSC Geographic Impact Zones.....	2-3
3-1	Desert Tortoise Range at Nevada Test Site.....	3-9